

## Abstract

The present invention provides an apparatus and method of radio transmission of real-time IP packets using header compression technique. In the present invention, the size of a compressed header of an RTP packet can be adapted to length types required by the system by adding a radio link adaptation unit to the existing PDCP entity. The method comprises header-compressing the RTP packets, to obtain header-compressed RTP packets having a plurality of different header compression lengths; pre-configuring header compression lengths and length types required by the system; and PDU-size adapting the plurality of different header compression lengths of the header-compressed RTP packets, so as to comply with said lengths and length types required by the system.

(fig. 8)